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Lab Science 9

Block H

Battery Challenge Evaluation

Comparing with the data to our expectation, the data was totally different from what we had expected. We had expected that the denser the concentration of the salt, the higher the voltage will be. However throughout the experiment, we discovered that there were barely any differences in voltage.

Some of the strengths for the method are that it is easy and convenient to try in any place. The materials are basically all easy to get because it is mostly an experiment with different amount of salt. The weaknesses of the method are that it is quite time consuming and need to take good look, whether you are using the right beaker and have measured almost near to the exact amount of water and salt.

Possible modifications for this evaluation are measuring the amount of salt and the voltage. It was really hard to get the exact amount of salt that we needed for the experiment because the weight of the plastic cup always changed a bit whenever we tried to measure the salt. Also when adding the salt in the plastic cup, the salt sometimes fall over on the top of the weight balance, which adds up additional weight that are unnecessary. The similar thing happened when taking out the salt from the plastic cup because the salt sometimes fall off and land on the balance.

From our results, I can conclude that there was not a big difference between the amounts of voltage due to the amount of salt. I would recommend to the group that in order to control the variable for an efficient battery, you need to measure the voltage after waiting for few seconds until the changing in numbers slow down.